## WHAT IS CLAIMED IS:

1. A method for identifying objects within a set of objects, the method comprising the steps of:

transmitting a signal toward a region of interest;

receiving energy reflected from said region of interest;

establishing a baseline field strength for said received reflected energy;

determining at least one frequency at which said field strength substantially differs from said baseline field strength for said received reflected energy; and

identifying at least one object within said region of interest based upon said determined at least one frequency.

 The method of claim 1 wherein said identifying step comprises the steps of: establishing a plurality of pre-selected frequencies within a frequency range of said transmitted signal; and

associating at least one of said pre-selected frequencies with each object of said set of objects.

- 3. The method of claim 1 wherein said transmitted signal is an electromagnetic signal.
  - 4. The method of claim 1 wherein said transmitted signal is sonic.
  - 5. The method of claim 1 wherein said transmitted signal is ultrasonic.
  - 6. The method of claim 1 further comprising the step of: affixing at least one antenna to each object of said set of objects.

- 7. The method of claim 6 further comprising the step of: causing each of said at least one affixed antenna to resonate at a pre-selected frequency.
- 8. The method of claim 6 further comprising the step of: causing each of said at least one affixed antennae to resonate at a different preselected frequency.
- 9. The method of claim 1 wherein said step of transmitting said signal comprises the step of:

transmitting a broadband signal spanning a plurality of resonant frequencies and wherein said determining step comprises the step of:

determining which of said plurality of resonant frequencies has a field strength which differs substantially from said baseline field strength.

10. The method of claim 1 wherein said step of transmitting said signal comprises the step of:

transmitting a narrowband signal spanning a single preselected resonant frequency and wherein said determining step comprises the step of:

determining whether a field strength of said single preselected resonant frequency differs substantially from said baseline field strength for said reflected energy.

11. An object presence detection system, the system comprising: at least one region of interest;

object detection equipment disposed conveniently to said at least one region of interest;

a set of objects for detection by said object detection equipment; and at least one antenna disposed on each object of said set of objects for uniquely identifying each said object of said set of objects to said object detection equipment.

- 12. The system of claim 11 wherein each antenna of said at least one antennae resonates at a different pre-selected frequency.
- 13. The system of claim 11 wherein each said antenna of said at least one antennae has a different length.
- 14. The system of claim 11 further comprising:
  a data table, accessible to said object detection equipment, for associating each said object of said set of objects with a unique pre-selected resonant frequency.
  - 15. The system of claim 11 wherein said object detection equipment comprises: at least one transmitter.
- 16. The system of claim 15 wherein said at least one transmitter is a radio frequency transmitter.
  - 17. The system of claim 11 wherein said object detection equipment comprises: at least one receiver.

- 18. The system of claim 17 wherein said at least one receiver is a radio frequency receiver.
- 19. The system of claim 17 wherein said object detection equipment further comprises:

analyzing circuitry, coupled to said at least one receiver, for identifying resonant frequencies present in said region of interest.

20. A system for detecting object presence, the system comprising: means for transmitting RF (radio frequency) energy towards objects in a region of interest;

means for receiving RF energy from said objects in said region of interest;

means for generating at least one resonant frequency to represent an object population in said region of interest;

means for altering said received RF energy with said generated at least one resonant frequency; and

means for analyzing said altered received RF energy.

- 21. The system of claim 20 further comprising:
  means for identifying said object population based on said analyzed altered received
  RF energy.
- 22. The system of claim 20 wherein said means for generating comprises: at least one distinctively dimensioned antenna on each object of said object population.